

CL1805 US NA SEQUENCE.txt
SEQUENCE LISTING

<110> Yang, Jianjun Gene

<120> METHOD FOR ACCUMULATING TRANSLOCATED PROTEINS

<130> CL1805 US NA

<150> 60/418,585

<151> 2002-10-15

<160> 34

<170> Microsoft Office 97

<210> 1

<211> 21

<212> PRT

<213> Ipomoea batatas

<400> 1

Met Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr Leu
1 5 10 15

Leu Pro Asn Pro Ala
20

<210> 2

<211> 16

<212> PRT

<213> Ipomoea batatas

<400> 2

His Ser Arg Phe Asn Pro Ile Arg Leu Pro Thr Thr His Glu Pro Ala
1 5 10 15

<210> 3

<211> 101

<212> PRT

<213> Nephila calvipes

<400> 3

Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Ala Gly Gln Gly
1 5 10 15

Gly Tyr Gly Gly Leu Gly Ser Gln Gly Ala Gly Arg Gly Gly Leu Gly
20 25 30

Gly Gln Gly Ala Gly Ala Ala Ala Ala Ala Ala Gly Gly Ala Gly
35 40 45

Gln Gly Gly Leu Gly Ser Gln Gly Ala Gly Gln Gly Ala Gly Ala Ala
50 55 60

Ala Ala Ala Ala Gly Gly Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly
65 70 75 80

Ser Gln Gly Ala Gly Arg Gly Gly Gln Gly Ala Gly Ala Ala Ala Ala
85 90 95

Ala Ala Gly Gly Ala
100

<210> 4

<211> 6

<212> PRT

<213> Nephila clavipes

<400> 4

Ser Gly Ala Gly Ala Gly
1 5

<210> 5

<211> 6

<212> PRT

<213> Nephila clavipes

<400> 5

Gly Ala Gly Ala Gly Ser
1 5

<210> 6

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<211> 101

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide sequence for a DP-1B monomer unit

<400> 6

Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Ala Gly Gln Gly
1 5 10 15

Gly Tyr Gly Gly Leu Gly Ser Gln Gly Ala Gly Arg Gly Gly Leu Gly
20 25 30

Gly Gln Gly Ala Gly Ala Ala Ala Ala Ala Ala Ala Gly Gly Ala Gly
35 40 45

Gln Gly Gly Leu Gly Ser Gln Gly Ala Gly Gln Gly Ala Gly Ala Ala
50 55 60

Ala Ala Ala Ala Gly Gly Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly
65 70 75 80

Ser Gln Gly Ala Gly Arg Gly Gly Gln Gly Ala Gly Ala Ala Ala Ala
85 90 95

Ala Ala Gly Gly Ala
100

<210> 7

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Highly repeated consensus motif within a DP-1B monomer unit

<400> 7

Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Ala Gly Arg Gly
1 5 10 15

Gly Leu Gly Gly Gln Gly Ala Gly Ala Ala Ala Ala Ala Ala Ala Gly
20 25 30

Gly Ala

<210> 8

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Soft segment within a DP-1B monomer unit

<400> 8

Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Ala Gly Arg Gly
1 5 10 15

Gly Leu Gly Gly Gln Gly
20

<210> 9

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Hard segment within a DP-1B monomer unit

<400> 9

Ala Gly Ala Ala Ala Ala Ala Ala Ala Gly Gly Ala
1 5 10

<210> 10

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer SPM+1

<400> 10

atggggaaag ccttcacact cgctctcttc ttag

34

<210> 11

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer SPM+2

<400> 11
ctctttccct ctatctcctg cccaatccag cccattccag gttca 45

<210> 12

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer SPM+3

<400> 12
atcccatccg cctccccacc acacacgaac ccgcc 35

<210> 13

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer SPM-1

<400> 13
ggcgggttcg tgtgtggtgg ggaggcggat gggattgaac ctggaatggg ctggatt 57

<210> 14

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer SPM-2

<400> 14
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<210> 15
<211> 114
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence of sporamin targeting determinant coding regio
n.

<400> 15
atggggaaag ccttcacact cgctctcttc ttagctcttt ccctctatct cctgcccaat      60
ccagcccatt ccaggttcaa tcccatccgc ctccccacca cacacgaacc cgcc          114

<210> 16
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence of sporamin targeting determinant coding regio
n.

<400> 16
Met Gly Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr
1      5      10      15
Leu Leu Pro Asn Pro Ala His Ser Arg Phe Asn Pro Ile Arg Leu Pro
20      25      30
Thr Thr His Glu Pro Ala
35

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer SPM-5'
<400> 17
ccaccgccat ggggaaagcc

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20

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<210> 18
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer SPM-S
 <400> 18
 ttgagatcta gctggattgg gcaggagata 30

<210> 19
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer SPM-V
 <400> 19
 ttgagatcta gcgggttcgt gtgtggtgg 29

<210> 20
 <211> 83
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR amplified sporamin targeting determinant coding sequence SSP
 suitable
 for DP-1B fusion protein construction
 <400> 20
 ccaccgcat ggggaaagcc ttcacactcg ctctcttctt agctctttcc ctctatctcc 60
 tgcccaatcc agctagatct caa 83

<210> 21
 <211> 25
 <212> PRT
 <213> Artificial Sequence

CL1805 US NA SEQUENCE.txt

<220>

<223> PCR amplified sporamin targeting determinant coding sequence SSP
suitable
for DP-1B fusion protein construction

<400> 21

Met Gly Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr
1 5 10 15

Leu Leu Pro Asn Pro Ala Arg Ser Gln
20 25

<210> 22

<211> 131

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR amplified sporamin targeting determinant coding sequence SSP-
SProP suitable for DP-1B fusion protein construction

<400> 22
ccaccgccat ggggaaagcc ttcacactcg ctctcttctt agctctttcc ctctatctcc 60
tgcccaatcc agcccattcc aggttcaatc ccatccgcct cccaccaca cacgaaccg 120
ctagatctca a 131

<210> 23

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> PCR amplified sporamin targeting determinant coding sequence SSP-
SProP suitable for DP-1B fusion protein construction

<400> 23

Met Gly Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr
1 5 10 15

Leu Leu Pro Asn Pro Ala His Ser Arg Phe Asn Pro Ile Arg Leu Pro
20 25 30

Thr Thr His Glu Pro Ala Arg Ser Gln
35 40

<210> 24

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer H6KDEL+

<400> 24

gatcccatca ccataccat cacaaggatg agctttaagg tac

43

<210> 25

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer H6KDEL-

<400> 25

cttaaagctc atccttgtga tggatgatgg gatgg

35

<210> 26

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> H6KDEL adapter

<400> 26

Ser His His His His His His Lys Asp Glu Leu
1 5 10

<210> 27

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Top strand of H6KDEL adapter

<400> 27
gatcccatca ccatcaccat cacaaggatg agctttaagg tac

43

<210> 28

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Bottom strand of H6KDEL adapter

<400> 28
cttaaagctc atccttgtga tggatgatggt gaatgg

36

<210> 29

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Highly conserved sequence within all DP-1B fusion proteins

<400> 29

Cys Gly Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gly Gly Ala
1 5 10 15

Gly Arg Gly

<210> 30

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward Primer 35S-F

<400> 30
gcctctgccg acagtgggtcc

20

<210> 31

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward Primer BC-F

<400> 31

cccgtcaaac tgcatgccac

20

<210> 32

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse Primer SPM-R

<400> 32

agctggattg ggcaggagat ag

22

<210> 33

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Consensus sequence universally recognized as signals for protein retention in the endoplasmic reticulum (ER)

<400> 33

Lys Asp Glu Leu

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<210> 34

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Consensus sequence universally recognized as signals for protein retention in the endoplasmic reticulum (ER)

<400> 34

His Asp Glu Leu
1